

**ABSTRACT OF THE DISCLOSURE**

**[0027]** An imaging system, especially an imaging system for imaging electromagnetic radiation in the optical spectral range, includes at least one lens element and at least one first and one second optically functional boundary surface through which the electromagnetic radiation can pass. At least the first and at least the second optically functional interface can be located either on one or on two or more lens elements. At least the first and at least the second optically functional interface have, at least in sections, a cylinder lens geometry or a cylinder lens-like geometry so that these optically functional interfaces each have a direction lying in the interfaces and along which at least in sections the curvature of the surface is essentially constant. The direction of essentially constant curvature of at least the first optically functional interface to the direction of essentially constant curvature of at least the second optically functional interface being aligned roughly perpendicular to one another.

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